

Please cancel claims 1-18, 23, 25-37, without prejudice to pursue them by way of a divisional application.

Please amend claims 19 and 20 as follows:

Sub B1
19. (AMENDED) A method of depositing diverse materials on individually addressable electrode arrays, said method including the steps of:
providing an array of individually addressable electrodes, a power source, a reference electrode and a counter electrode;
delivering [a mixture of source materials] at least one source material to predetermined locations on said array; [and]
depositing a predetermined composition of said source materials on a given electrode on said array to produce a library of inorganic materials having different compositions
A2
at a plurality of locations on said array; and
screening said library of inorganic materials for a useful property.

c 71 20. (AMENDED) The method of claim ^{2 3 5 6}~~19, 40, or 41~~ wherein said step of delivering said mixture of said source materials includes the steps of:
positioning a deposition head over a given electrode on said array; and
activating a predetermined number of syringe pumps associated with said deposition head, said activation delivering a predetermined composition of said source materials
c given electrode
to said ~~predetermined locations~~ on said array.

Please add the following new claims 38-46 as follows:

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38. (New) The method of claim ¹19, wherein said delivering step includes delivering a mixture plurality of source materials.

²
39. (New) The method of claim ²38, wherein said screening step screens for catalytic activity of said different materials. ^{methanol oxidation}

Sub B3
40. (New) A method of depositing diverse materials on individually addressable electrode arrays and screening the same for a useful property, said method including the steps of :
providing an array of individually addressable electrodes, a power source, a reference electrode and a counter electrode;
delivering a mixture of source materials to predetermined locations on said array;
depositing a predetermined composition of said source materials on a given electrode on said array; and
repeating said depositing step to create a library of semiconductor-containing materials within said array; and
screening said library of semiconductor-containing materials for catalytic property.

a3
41. (New) A method of depositing diverse materials on individually addressable electrode arrays and screening the same for a useful property, said method including the steps of :
providing an array of individually addressable electrodes, a power source, a reference electrode and a counter electrode;
delivering a mixture of source materials to predetermined locations on said array;
depositing a predetermined composition of said source materials on a given electrode on said array;

19

Sub B 3
cont.

repeating said depositing step to create a library of metal-containing materials within said array; and
screening said library of metal-containing materials for catalytic activity.

10 42. (New) The method of claim 40 or 41 wherein said library contains oxides.

11 43. (New) The method of claim 10, 40 or 41, wherein said depositing step is accomplished using an automated system.

c 12 44. (New) The method of claim 19, 40 or 41, wherein said depositing step includes wherein the automated system changes changing the deposition at locations across the array to create different materials at said locations.

c 13 45. (New) The method of claim 10, 40 or 41, wherein said depositing step includes changing the length of deposition time at locations across the array to create different materials at said locations.

Sub B 4 46. (New) The method of claim 19, 40 or 41, wherein said depositing step includes varying the counter anions at locations across the array to create different materials at said locations.

c 15 47. (New) The method of claim 19, 40 or 41, wherein said depositing step includes varying the concentrations of said source materials at locations across the array to create different materials at said locations.

16 48. (New) The method of claim 10, 40 or 41, wherein said depositing step includes varying the selection of an electrochemical deposition program at locations across the array to create different materials at said locations.

Supplemental Information Disclosure Statement

In compliance with 37 C.F.R. §1.56, the Examiner is hereby respectfully advised that the references listed on the attached sheet are known by or have come to the attention of Applicants and are being submitted herewith for consideration by the Examiner. Applicants have identified the references on Supplemental Form PTO-1449, attached hereto. A copy of all the listed patent references are included.

It is Applicants' opinion that the claim presently before the Examiner patentably distinguish the present invention from each of these references whether taken alone or in combination. The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art or contain matter which anticipates the invention or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art.

Applicants authorize to charge Deposit Account No. 50-0496 for \$240.00 under 37 C.F.R. 1.17(p) to cover the submission of these items and request favorable consideration of such items.

Drawing Changes

In response to the Office Action mailed September 1, 1999, submitted herewith (under separate cover) are Figs. 1A-5 (6) sheets of corrected formal drawings.

Remarks

The Examiner has rejected the pending claims 19 and 23 under 35 U.S.C. § 102(b), and claims 20-22 and 24 and 35 U.S.C. § 103(a). Without any concession as to the validity of the rejections, and in order to clarify the claims so that the patentably distinct combination is more readily apparent to the Examiner, Applicant has amended claims 19 and 20 and also presents new

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